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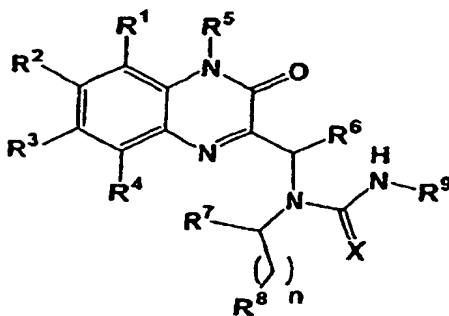
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Published:

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: QUINOXALINONE-3- ONE DERIVATIVES AS OREXIN RECEPTOR ANTAGONISTS



(I)

(57) Abstract: The invention relates to quinoxalinone derivatives of general Formula (I) and their use as active ingredients in the preparation of pharmaceutical compositions. The invention also concerns related aspects including processes for the preparation of the compounds, pharmaceutical compositions containing one or more of those compounds and especially their use as orexin receptor antagonists. General Formula (I) wherein X and R¹-R⁹ are as defined in the description

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/004374

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D241/44 C07D401/12 A61K31/498 A61P9/00 A61P25/00
A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00/47577 A (COULTON STEVEN ; JOHNS AMANDA (GB); PORTER RODERICK ALAN (GB); SMITHKL) 17 August 2000 (2000-08-17) cited in the application claims 1,10,11	1-11
A	WO 02/051838 A (WELLER THOMAS ; CLOZEL MARTINE (CH); FISCHLI WALTER (CH); ACTELION PHA) 4 July 2002 (2002-07-04) cited in the application claims 1,6-8	1-11
A	WO 00/47580 A (COULTON STEVEN ; JOHNS AMANDA (GB); PORTER RODERICK ALAN (GB); SMITHKL) 17 August 2000 (2000-08-17) cited in the application claims 1,11-14	1-11
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

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27/07/2004

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/004374

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01/68609 A (FISCHLI WALTER ; ACTELION PHARMACEUTICALS LTD (CH); CAPPI MICHAEL (DE)) 20 September 2001 (2001-09-20) cited in the application claims 1,8-13	1-11
P,A	WO 2004/004733 A (WELLER THOMAS ; CLOZEL MARTINE (CH); FISCHLI WALTER (CH); ACTELION PHA) 15 January 2004 (2004-01-15) the whole document	1-11

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/004374

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 8 and 10 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/004374

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